



Classification: Energy Analyst	Position No. 8100-5837-00_
CBID: R10	Office: Supply Analysis
Date Prepared: November 16, 2015	Division: Energy Assessments
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

Under the direct supervision of an Electric Generation System Specialist III in the Supply Analysis Office (SAO) of the Energy Assessments Division (EAD), the incumbent, in a learning capacity in an entry level classification, will perform analytical tasks of average difficulty and will participate in data collection and analysis of costs and benefits associated with integrating and developing portfolios of distributed energy resources (DERs), including energy efficiency, demand response, electric vehicles, photovoltaic, and storage systems. Studies to be performed will focus on developing portfolios of customer resources to meet local system reliability needs, thus avoiding high value investments associated with transmission and distribution infrastructure upgrades. The distribution system level locations that will be studied are identified in the investor-owned utilities (IOUs) Distribution Resource Plans (DRPs) required by Public Utilities Code 769 that was instituted by AB 327, Section 8 (Perea 2013). As the state moves forward with its commitment to develop an integrated planning process that includes DERs to achieve its environmental goals, calculating costs associated with coordinating local and system energy resource planning will also require study and analysis. The distribution system level locations that will be studied are identified in the IOUs Distribution Resource Plans (DRPs) required by SB 327. The incumbent will provide analytical support to senior staff in the areas related to DER system costs.

WORKING CONDITIONS

Work is performed indoors in an office setting involving sitting, standing and walking. Travel may be required to participate in workshops, hearings, and meetings. Work is technical and quantitative in nature. Additional hours beyond an eight-hour workday or forty-hour week may be required. While performing duties described below, the incumbent will be required to work alone or in team environments, using a personal computer and appropriate Energy Commission software such as word processing, electronic mail, and internet. Incumbent also participates and leads meetings with other staff and other agencies.

DUTIES AND RESPONSIBILITIES:

- 25% Participate in collecting operational and cost data related to the integration and interconnection of distributed energy resources (DER) to the electric and transmission system. Assist senior staff in the preparation of analyses and studies of customer DER portfolios. Assess costs and benefits and determine if they can meet local system reliability needs, defer high value infrastructure investments while minimizing ratepayer costs. The incumbent also will provide analytical support for the SAO's efforts in identifying and tracking the most significant technology, regulatory, and market barriers that will inhibit the growth of a customer DER market. (E)

DUTY STATEMENT

- 25% Review and report on existing tariffs, contracts, and programs available to DER developers in investor-owned utility service territories. Evaluate these programs and determine what types of information and/or incentives would be needed to interest customers and encourage participation in new developing DER markets. Work, often in collaboration with the California Public Utilities Commission (CPUC), to develop cost-benefit assessments of DERs and guidelines for new tariffs, programs or contracts that will increase customer interest and, ultimately, participation. Develop in-depth understanding of CPUC location net benefit methodology and the Distributed Energy Resources Avoided Cost calculator used to calculate cost and benefits used in rate setting proceedings. (E)
- 20% Assist in compiling, studying and coordinating information on the costs of DERs with CPUC, California Independent System Operator (CAISO), and IOUs. Analyze and report on operational profiles of these resources and determine how they can be combined to efficiently and cost effectively meet both system and local reliability and operational requirements. (E)
- 15% Participate in developing data and operational characteristics of DER to be used in economic and statistical models. The incumbent also will support the maintenance of databases that include summaries of installed new distributed generation resources as well as costs associated with their development, interconnection and integration. (E)
- 10% Provide support to senior staff on analytical issues relating to quantifying and integrating distribution level resources. (E)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)

SIGNATURES			
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position			
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Employee, Energy Analyst	Date	Linda Kelly, EGSS III	Date